

Floods

Disasters can happen to you and me!



Published in April 2021



Be sure to read at least once!

Toda City Hazard Book

Must have for Toda City Residents

Earthquakes



Months and years have passed since the Great Hanshin-Awaji Earthquake, the Great East Japan Earthquake and Kumamoto Earthquake, and we will never forget their terrible impact.

Still-do we really think of disasters like these as something that could really happen to us?

If we're honest with ourselves, most of us have to admit that we don't actually believe we might be affected by a disaster someday.

Even though we know that once a disaster happens, it's too late to go back...

Disasters:

You never believe it will be you... until it is.

"The Arakawa River floods its banks and submerges Toda...." Nobody really believes it could really happen, right?

But something that nobody ever thought could happen did. It happened on March 11, 2011. That is what disaster looks like.

People keep saying that it's only a matter of time before a major earthquake hits Tokyo... but how seriously do we really take that risk?

Even if we know it will happen someday, we don't have a real sense of urgency about it. And even if we know we should be prepared, we don't really put that knowledge into action. That's the reality of the situation.









What will happen if a disaster strikes Toda?

What specific things can I do to prepare?

How can I start taking the threat of disasters more seriously?



Ready to learn how to protect yourself and your loved ones in a flood or earthquake? Time to hit the books!



Everywhere in Japan is prone to various disasters. The type of disaster depends on the natural features of the location, but they include earthquakes, typhoons, heavy rain, and volcanic eruptions. In addition, recent extreme weather has resulted in almost yearly natural disasters such as typhoons and heavy rains, which cause massive damage throughout Japan.

Toda City, too, could experience, at any time, any number of disasters, including not only flooding due to localized heavy rains or the Arakawa River flooding but also a major earthquake directly below Tokyo, which there are concerns about.

Although the city has implemented various measures in preparation for these types of disasters, it is probably difficult for the government alone to prevent all damage considering disasters that areas throughout Japan have experienced. Therefore, it is important that each resident understand the distinguishing aspects of the area and prepare for possible disasters before they occur.

Toda City formulated the Toda-shi Disaster Prevention Basic Ordinance in March 2021 in order to minimize damage caused by disasters by marshaling the collective strength of the government, disaster prevention related organizations, residents, and businesses and clarifying the responsibilities of the city, city council, residents, and businesses related to disaster prevention, emergency response when disasters hit, and recovery.

The ordinance promotes disaster prevention measures and aims to create a local community resilient to disasters by stipulating preventive measures and emergency response based on self-help, mutual help, and public help and each party's role related to these.

You should consider the Toda City Hazard Book (Preserved Version) a family partner, keep a copy of it somewhere easily accessible, and make use of it when necessary.





Mayor of Toda city Fumihito Sugawara

The Toda-shi disaster prevention basic ordinance

Katada's eye



In recent years, there have been meteorological disasters throughout Japan almost every year, such as the torrential rains of July 2018, 2019 Typhoon Hagibis, and the torrential rains of July 2020, and these have resulted in numerous deaths. Natural disasters, including heavy rains and other meteorological disasters, have resulted in greater havoc than expected just like the tsunami caused by the Great East Japan Earthquake did.

At the same time, the pandemic caused by Covid-19 since the end of 2019 has made us once again reexamine "how we protect ourselves." First, your response and actions, such as wearing masks, washing your hands, and avoiding the 3Cs, are the only way to protect yourself from infectious diseases. If you become infected, you will expose family members and people at schools and your workplace to danger, and how you respond and act protects not only yourself but also your loved ones.

This is the same for how you protect yourself in the case of a natural disaster. First, your response and actions—that is, checking what you need to do to respond to disasters and making preparations in advance and then quickly making decisions when it becomes necessary to evacuate—is the only way to protect not only yourself but also your family and those you love from natural disasters.

Natural disasters occur at various intervals, every couple decades, every couple centuries, or even once every thousand years like the Great East Japan Earthquake. However, it could be the next torrential rain or earthquake that hits Toda City. This hazard book covers the essentials of how you can protect yourself at that time.

First, you should know what will happen to Toda City when a disaster hits and envision what you and your family should do in that situation. In addition, you should think about what you should actually do to protect yourself using this hazard book. This is the first step to protecting not only yourself but also your loved one, your family.

Eng.D.Katada Toshitaka,

Project Professor, The University of Tokyo, Interfaculty Initiative in Information Studies, Graduate School of Interdisciplinary Information Studies



Don't make assumptions



Find out exactly what can happen in a flood or an earthquake.

There is no guarantee that a disaster will play out the way you think it will. When you are up against nature, the level of destruction can be beyond anything you can imagine.

2

Do everything you can

Figure out exactly what you should do in a flood or an earthquake.

The steps you take to save your life in a flood are different than the ones you take in an earthquake—but in either event, advance preparation is the key. Once a catastrophe strikes, you must do everything in your power to keep yourself and others safe.



Be the first to evacuate and take action

Once you know what you should do in a flood or an earthquake, figure out what actions are being taken in the community.

Human beings have a tendency to freeze up in an emergency, but if someone takes action first, they will naturally follow. Your leadership may not only save your own life and the lives of your family members, but the lives of the people in your community as well.

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- es bring out the best in communities ood Disaster Preparation Workshops ter prevention societies: Using teamwork to keep communities safe
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- fuge action supporter refuge support system required

ne, flood evacuation plan acuation sites

- mily will contact each other
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- Tornados and lightning
- How to stay informed

Community initiatives

Two types of flooding

Heavy rainfall may cause Toda City to flood. There are two ways that this could happen.

The Arakawa or other river could overflow

Riverwater flooding

Rare, but causes extensive damage when it occurs



of flooding.

More common, but also less dangerous



In this type of flooding, the water typically does not move as fast as it does with a riverwater event. Still, flow may be more rapid in specific low-lying areas or along steep gradients, and pose significant risk even at shallow depths.



U

Α

Floods Q&A

What kinds of flooding are likely to occur in Toda City? -----

Floods

If the Arakawa River overflows its banks, the entire city will be deeply submerged. Toda may also experience flooding if the water from a local downpour cannot run off fast enough.

> \rightarrow What will happen? (pg. 13-21)

Should I evacuate my home if there's a flood?

However, if you are late getting out of the city and your home is not in danger of flooding, you may choose to remain there.

> \rightarrow It is necessary to start long-distance evacuation early, before the Arakawa River overflows (pg. 22-23)

 \rightarrow Protecting yourself from a flood of the Arakawa River (pg. 24-25)

Do I have to evacuate to the place designated by the city?

You are not required to evacuate to the city А shelter. Other options include the homes of friends or family or your workplace.

> \rightarrow Where should I evacuate? Evacuation map (pg. 26-27)

Where can I get disaster information?

...... Typhoon and rain information can be found on TV, on the radio, and on the internet. The city also uses various means of distributing information, such as emergency emails and the emergency broadcast system.

> \rightarrow How to stay informed (pg. 58-59)

What if I live in an apartment or condo? Should I do something to prepare?

A. Flooding may cut off your supply of electricity, gas, water, and other essentials and may make it impossible to flush the toilet. Be prepared by having plenty of drinking water and food supplies on hand.

 \rightarrow Portable emergency items and emergency stockpiles (pg. 56)

water buildup without river overflow **Inland Waters**

Floods due to

If the floodwaters overtop the levee or the levee collapses or fails, the water will surge out with enough force to destroy the homes in its path. In this scenario, the flow of water is typically very fast. Locations closer to the river are at especially high risk for this type

If the Arakawa **River overflows...**

...it will flood the entire city Should the Toda-side levees burst due to rainfall heavy enough to overwhelm them (a thousand-year flood event), the water would inundate our entire city. The majority of Toda City would be flooded above the second story, while the deepest sections could go to the third story or even higher.

This map was created based on the Anticipated Areas of Inundation from Flooding of the Arakawara River (estimated maximum class of flood*), a document published by the Arakawa-joryu River Office and the Arakawa-karyu River Office, MLIT.

The flood hazard map combines flood conditions resulting from multiple expected breaches in the levee. Understand that actual flood conditions may vary from those shown.

> *Rainfall of 632mm in 72 hours Probability of rain once in 1000 years (Published May 30, 2016)

> > Arakawa River

Itabashi Ward, Tokyo Met.

Projected floodwater depth 5m-4m 3m-2m-1m





1 km

Wako City

Study section: Floods

Above third floor or higher
Above second floor to second floor eaves level
Above first floor to first floor eaves level
Below first floor level

Estimated area of building collapse by flood (Riverbank overflow)

Evacuate as soon as possible. High-speed floodwaters may topple wooden homes.

► ! → Underpasses

Underpasses flood easily, obstructing the flow of traffic. Avoid evacuating along these routes.



due to rainfall completely overwhelming the levees



Projected floodwater depth

5m-

4m-

3m-

2m-

1m-

	5 m or more	Above third floor or higher
 	3.0 up to 5 m	Above second floor to second floor lovel
	2.0 40 10 5 111	Above first floor to first floor eaves level
1, #	0.5 up to 1 m Less than 0.5 m	Below first floor level





If the Arakawa River overflows...

Flood duration with heavy rains under estimated maximum class of flood*



How high would the water really get?

Toda City is built right on the Arakawa River, and cannot escape the risk of flooding. Signs have been posted on 290 TEPCO utility poles within Toda City indicating the projected floodwater depth at that point and information on the nearest emergency evacuation buildings.

The floodwater depth posted on the signs indicates the water height from the ground. The red tape affixed to the top of the pole shows exactly how high the water will go.





If the Kamogawa River, Kounumagawa River, Shibakawa River or Shinshibakawa River overflows... Projected floodwater depth



If the Shibakawa River or Shinshibakawa River overflows...





If the Sasamegawa River or Shobugawa River overflows...

4m

3m-

2m-

Projected floodwater depth

Estimated area of building collapse by (floodRiverbank erosion)

You should quickly evacuate since the current is fast and there are concerns even reinforced concrete buildings will be destroyed along the river.

► Underpasses

Underpasses flood easily, obstructing the flow of traffic. Avoid evacuating along these routes.

If the Sasamegawa River overflows...

This map was created based on the flood damage risk information figure from Flooding of the Sasamegawa River (estimated maximum class of flood*), a document published by the River and Erosion Control Division, Department of Land Development, Saitama Prefecture.

5 m or more

3.0 up to 5 m

.0 up to 3 m

Above third floor or higher

Above second floor to

second floor eaves level

Above first floor to first

w first floor level

floor eaves level

*Rainfall of 690mm in 24 hours (Published May 26, 2020)

If the Shobugawa River overflows...

2km

This map was created based on the flood damage risk information figure from Flooding of the Shobugawa River (estimated maximum class of flood*), a document published by the River and Erosion Control Division, Department of Land Development, Saitama Prefecture.

*Rainfall of 690mm in 24 hours (Published May 26, 2020)

These areas will flood even if the river does not overflow ...

Water Supply and Sewage Division, Toda City

flooding may be different from the map. This does not take into consideration flooding from the Arakawa River and other rivers. Revised in March 2019



It is necessary to start long-distance evacuation early, before the Arakawa River overflows

If an unprecedented massive typhoon or heavy rains hit and the Arakawa River overflows, the whole of Toda City will flood.



It is dangerous to stay in the city!



When the Arakawa River is in danger of flooding, start your long-distance evacuation without hesitation.

It is dangerous if everyone tries to evacuate at the same time. This can cause chaos due to traffic jams and major accidents such as pedestrians falling over each other. When wind and rain grow stronger, train service stops and it becomes difficult to evacuate on foot.



Secure long-distance evacuation point yourself.

Shelters in neighboring cities have limited capacity. Secure your own evacuation point to prevent infectious disease.

> What should vou do? Secure your own evacuation point

friends or accommodation facilities/workplaces.

If it is too late to evacuate and flooding has already started, you should try to evacuate vertically, not force a long-distance evacuation.

You can evacuate vertically to the third or higher floor of a sturdy building outside the anticipated area of flooding, including building destruction (riverbank overflow).

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Check how you will evacuate on public transportation.



If you cannot secure an evacuation point, you should evacuate to a shelter located in a neighboring city.

Check the relevant website in advance for information on whether the shelters of neighboring cities will be open and whether they are accepting people. No parking is available. Be aware of this if you have to evacuate by car.





Protecting yourself from flood of the Arakawa River



Ensure your own evacuation point and begin long-distance evacuation

Public shelters have limited capacity. Capacity has been further reduced because of Covid-19. Secure evacuation points, such as the house of relatives/friends or accommodation facilities/workplaces, in areas with little risk of flooding, yourself.



Asking for permission to shelter there in the case of an emergency before the emergency occurs will provide you with peace of mind.

DANGED Look out for unexpected dangers in a flood!

Evacuating through floodwaters is extremely dangerous!

Avoid traveling through underpasses or along other routes that are lower than the surrounding area, as floodwaters tend to collect there

Muddy waters make it difficult to see where you are stepping. If a safety cover comes loose, you could easily fall into a hole or a drainage ditch.





Underground areas are not safe!

Water can rush into underground spaces almost immediately



The water pressure from just a dozen centimeters of water can make it impossible to open doors.





Move to the highest safe place in the building Be prepared to stay at home

Even in a tall building, it is dangerous to remain at the height of the floodwaters. Get to the highest floor in your apartment or condo or whereve you are safest from the flood. People who live in wooden houses in fast-flowing flood areas need to evacuate



Get high above the floodwaters

Know the level of damage to expect from rainfall

Per-hour rainfall		Effect on people and v
20 to 50 mm	-	 Cannot stay dry even Cannot see through t with the wipers goin
50 mm or more	-	Umbrellas become u Impossible to drive s

Key

Point

What to

No.1

- Floodwaters can cut off water, electricity, gas, and other essential supplies for three days or up to a week or more. Toilets will not flush either. Fully prepare yourself to be cut off from the outside world for several days, making sure you have adequate food, drinking water, and other supplies.
- See pg. 56 for a list of emergency stockpiles.



vehicles n with an umbrella the windshield even ng iseless safely

Main type of damage

Rainwater overflows from sewer pipes and gutters

Rainwater may flow into underground rooms or shopping areas



Study section: Floods

Tod	a City	y Emergency Evacuati	on Buildings for	Flood Haza	ards 🔵
	No.	Name	Address I	Phone (048)	Floors available in an emergency
	1	Kizawa Primay School	1-48-6 Kizawa	442-6383	3F, 4F
ea	2	Kizawa Junior High School	1-6-29 Kizawa Minami	444-6400	3F, 4F
Shimotoda Area	3	Toda-Daini Primary School	2-2-37 Kizawa Minami	442-2675	3F, 4F
tod	4	Toda-Higashi Primary School	1-11-15 Shimo-Toda	442-3911	3F
noi	6	Toda-Higashi Junior High School	1-11-15 Shimo-Toda	442-5844	3F
Shii	6	Tobu Welfare Center	1-2-20 Shimomae	443-1021	3F, 4F
	0	Welfare Center for the Disabled	2-4-8 Kawagishi	445-1828	3 F
	8	Child Center Kodomonokuni	1-17-7 Honcho	443-2387	3 F
rea	9	Toda-Minami Primary School	4-8-2 Honcho	442-6384	3F, 4F
Kamitoda Area	10	Toda Junior High School	5-8-46 Honcho	442-2627	3F, 4F
lito	1	Kamitoda area interchange Center	2-21-1 Kamitoda	229-3133	3 F
Kam	12	Toda-Daiichi Primary School	3-7-5 Kamitoda	442-2268	3 F
	13	Toda City Cultural Hall	4-8-1 Kamitoda	445-1311	3 to 5F
	14	Niizo Primary School	2-13-8 Niizo Minami	442-2774	3F, 4F
_	15	Toda Shoyo Senior High School	1093 Oaza Niizo	442-4963	3F, 4F
Niizo Area	16	Niizo-Kita Primary School	1367 Oaza Niizo	442-3849	3F, 4F
20 <i>f</i>	1	Toda Sports Center	1286 Oaza Niizo	443-3523	2 to 5F
Nii	18	Niizo Welfare Center	1395 Oaza Niizo	445-1811	3F, 4F
	19	Niizo Junior High School	1448 Oaza Niizo	443-4512	3F, 4F
	20	Ashihara Primary School	1961 Oaza Niizo	420-2226	2F, 3F
ea.	21	Child Center Primrose	2-19-14 Sasame	422-1033	3 F
Sasame Area	22	Sasame-Higashi Primary school	3-17-12 Sasame	421-6674	3F, 4F
sam	23	Sasame Junior High School	4-38-1 Sasame	421-1462	2 to 4F
Sas	24	Sasame Primary School	6-9-1 Sasame	421-3524	3F, 4F
	25	Bijogi Primary school	2-33-1 Bijogi	421-1037	2 to 4F
Area	26	Nanryo Senior High School	4-23-4 Bijogi	421-1211	2 to 5F
BijogiArea	2	Seibu Welfare Center	5-2-16 Bijogi	421-3024	3 F
Bij	28	Misasa Junior High School	5-12-6 Bijogi	421-3011	3F, 4F
	29	Miyamoto Primary School	7-11-3 Bijogi	421-3010	2F, 3F

	No.	Name	Address	Phone (048)
ra-ku	0	Takasago Primary school	4-1-29 Kishicho Urawa-ku	829-2737
Urawa-ku	2	Kishicho Primary school	5-20-4 Kisihicho Urawa-ku	861-4320
	8	Yada Primary school	5-10-6 Daitakubo Minami-ku	882-2980
Minami-ku	4	Minami-Urawa Primary school	1-1-20 Shirahata Minami-ku	861-3781
ina	6	Urawa-Bessho Primary School	2-5-34 Bessho Minami-ku	862-2775
Σ	6	Oyaba Primary School	1-18-3 Minami-Urawa Minami-ku	882-2555
	0	Oyaguchi Primary School	24 Hirogayado Minami-ku	887-2731
	8	Zenmae Primary School	2500-1 Daitakubo Minami-ku	882-7871
	9	Mukai Primary School	5437 Oyaguchi Minami-ku	874-1150
	10	Kishi Junior High School	2-25-27 Minami-Honcho, Minami-ku	822-4022
	1	Shirahata Junior High School	2-18-13 Shirahata Minami-ku	861-3203
	12	Oyaguchi Junior High School	21 Hirogayato Minami-ku	887-1000

When should I evacuate?

Key

Point

Head for higher ground as soon as you hear the "Evacuation

If a typhoon is approaching or a low-pressure system is forecasted to drop heavy rains, a variety of weather and other information will be announced. Keep an ear out and don't get caught unaware.

start of elderly people and others" announcement



It is extremely difficult to release official announcements for short, localized bursts of heavy rainfall.

Short-term flooding is particularly common in areas prone to inland or roadway flooding. In addition to waiting for evacuation information, it is important to get into the habit of keeping up with JMA weather warnings and advisories.



ate analysis of information					
eteorological information		information	Actions to take	Alert Level	
ormation available on TV, the ernet, telephone hotlines, and more	Heavy Rain Emerg Information on flo	, , , ,	Life is at risk. Immediately ensure your safety!	Alert Level 5 equivalen	
heck the JMA website		ap "extremely hazardous" otential flood hazards	Evacuation of all residents from dangerous areas	Alert Level 4 equivalen	
JRL http://www.jma.go.jp ⁄IA website ▶ Weather/Earthquakes ▶	Heavy Rain Warning Flood Warning	Real-time Risk Map "Warning" Information to provide a warning on flooding	Elderly people and others are evacuated from dangerous areas	Alert Level 3 equivalen	
/eather Warnings/Advisories or Tropical /clone Information	Real-time Risk Ma Information to ca	p "Caution" Il attention to flooding	Check your	Alert Level 2 equivalen	
	Heavy Rain Adviso Flood Advisory	огу	evacuation plans	Alert Level 2	
EL 177	, 0	ormation(Probability of warnings) eavy rain is expected to be "high" or "medium" at morrow.	Increase preparedness for disasters	Alert Level 1	
V Data broadcasting (push d-button)	**			ence: JMA websit	

n)	* Toda City does not project high-tide flooding or designate landslide danger a	area
----	---	------

River height	
Information available on TV and the internet	
The Ministry of Land, Infrastructure, and Tra provides disaster management information	• • •
URL https://www.river.go.jp MLIT disaster management information ► rai	nfall/water leve
Smartphone https://www.river.go.jp/s/	
English https://www.river.go.jp/e/	

28 -

There is no way to announce local downpour information in advance

Protecting your home and belongings

Keep water out of your home

The city will distribute sandbags or set up a sandbag station to help residents prevent floodwaters from entering their homes.

Sandbag station

In the case of a flood emergency, the city will set up stations where residents can get sandbags free of charge. These locations will be announced on the website below.

Note that there is a limit to the number of sandbags that can be provided at these stations, so if you need more than ten bags, Each household or business is generally provided up to 10 sandbags. Although the sandbags are free, residents are responsible for transporting and positioning them as needed. Note also that sandbags can be reused if the sand inside remains dry, so please make the best use of them.



[Inquiry] Crisis control disaster prevention section TEL 048-441-1800 The easiest way to keep floodwaters out of your home is to use the objects that you have on hand. This works best if

you start setting up your defenses while the water is still low. It is critical that you block water from getting in not only in the front and other entry points, but under the floors as well.

Garbage bags filled with water

Double up two 40-liter garbage bags, fill them about halfway with water, and tie them tightly. The water bags can be placed in cardboard boxes and lined side by side to make a barrier.

Planters and a tarp

Take a planter filled with dirt and wrap it in a tarp to use it as a water barrier.



Plastic tanks and a tarp

Fill 10- or 20-liter plastic tanks with water, line them up, and wrap them in a tarp to use as a water barrier.



Waterstop

Place a board or similar object across entryways to prevent water from entering.



Prevent property damage and help make it possible to remain in your home

Floodwaters can turn your valuable possessions to garbage in an instant, transforming the streets into a giant dumping ground once they recede. Take steps to protect your property and keep damage to a minimum.

Protect important documents like your bank books, insurance cards, passport, and so on by placing them in an elevated place away from the floodwaters.



Any valuable electronics or appliances that can be moved should be taken to higher ground.



Water may also ruin your precious photo albums and memorabilia.



External air conditioning units and wiring can cause a short circuit. Shut down the breakers to be safe.



The flow of sewer water can reverse when water levels rise, and may push water out of your toilets. Place plastic bags full of water inside the bowls to prevent water from gushing up.



Make sure that septic tank covers are sealed tightly to prevent them from becoming damaged

by large amounts of dirt or mud. Cut the power to the blower (septic pump) and move it to higher ground.



Move your car to a safe location as soon as possible. If you cannot move it, try to at least keep the engine from getting flooded.



- Remove tatami mats and place them in an
- If moving tatami mats is difficult, place them on a table or other elevated surface to keep them as dry as possible.

elevated location.

- Move at least a few days' worth of clothing to an elevated place where it will not get wet.
- Keep in mind that trying to move heavy objects without enough help can lead to injury. Don't overdo it!



Keep the bathtub filled with water. This prevents water from coming up out of the sewer and also creates a supply of water for household use. Filled bathtubs can also help keep

underground water levels down.



Keep plenty of duct tape and kitchen plastic wrap on hand. These items often come in handy during flood conditions.

Earthquakes

Earthquakes Q&A

- What kind of earthquake is likely to occur in Toda City?
- Experts expect an earthquake as strong as JMA Seismic Intensity Scale 6+ to strike Tokyo directly.

→Earthquakes in Toda City (pg.33)

→How much damage will the shaking cause? (pg.34-35)

What exactly can I do to protect myself from the shaking?

The best protection is making sure that your building is earthquake resistant and that your furniture is secured before an earthquake strikes. If you feel shaking, get under a table or desk.

> Protecting yourself from an earthquake (pg.36-37) →When you feel shaking, think ahead (pg.38-39)

Should I evacuate my home if there's an earthquake?

> If your home is not damaged and there is no risk of fire in your area, you need not rush to evacuate.

> > →When you feel shaking, think ahead (pg.38-39)

Won't life at an emergency shelter be difficult?

- Shelters are primarily run by evacuees themselves. Cooperation and concern for others are essential to making it work.
- →What to do if you can't stay at home and must evacuate (pg.40-41)

What should I do to prepare?

Α

To be safe, you should have at least three days' and as much as one weeks' worth of food and other stockpiles. An emergency items backpack that leaves both hands free is a great option. Portable emergency items and stockpiles

(pg.56)

How can I check on the safety of my friends and family?

When disasters strike, phone connections often become unreliable. It is important to discuss a family evacuation point and means of communication in advance. → Family evacuation sites,

How the family will contact each other (pg.54-55)

Earthquakes in Toda City

In August 2013, Saitama Prefecture published new damage estimates for the Tokyo Inland earthquake based on what occurred during the Great East Japan Earthquake.

These estimates make use of the latest scientific information about what the Tokyo Inland earthquake would entail as well as past earthquake damages. They indicate five potential earthquake scenarios likely to cause extensive damages in Saitama: two involve active fault earthquakes and three involve subduction earthquakes.



Earthquake in northern Tokyo Bay	Earthquake in southern Ibaraki Prefecture	Genroku-type Kanto earth		
6+	6–	6-		



Experts say that the chance of a magnitude 7 "Tokyo Inland earthquake" (a designation that includes earthquakes along the northwestern Kanto Plains fault lines well as subduction earthquakes like a southern Ibaraki Prefecture earthquake originating in the Philippine Sea Plate)striking in the next 30 years is 70%. An event like this is bound to occur any time now.

Experts say that the chance of a magnitude 7

earthquake striking in the next 30 years is 70%

How much damage will the shaking cause?

Predicted JMA Seismic Intensity Scale levels for Toda City

The figure below shows the maximum JMA Seismic Intensity Scale level for the five Saitama Prefecture earthquake scenarios along a 250-meter grid.



Risk of soil liquefaction

The figure below shows the maximum liquefaction risk for the five Saitama Prefecture earthquake scenarios



Structural damage due to shaking and liquefaction

The figure below shows the maximum number of completely destroyed structures for the five Saitama Prefecture earthquake scenarios along a 250-meter grid.



Protecting yourself from an earthquake



Key

point

Being prepared is the highest priority

About eighty percent of the people who died in the Great Hanshin-Awaji Earthquake in 1995 were trapped beneath collapsing structures or falling furniture. Earthquakes happen out of the blue, and the best thing we can do is prepare for them before they strike.

Make your home earthquake-resistant and secure furniture

Wooden homes constructed prior to 1981 conform to the old earthquake resistance standards and may need to be reinforced. Everyone needs to take steps to ensure that their furniture and windows are safe.



The Earthquake Early Warning system will be your only advance notice

You only have a fraction of time between the moment you see The Earthquake Early Warning and the moment a powerful earthquake strikes--and if you are close to the epicenter, the warning won't come in time. In those few seconds, get away from anything that might fall and calmly get yourself into a safe position.

Even if you don't get an early warning, you should always take steps to protect yourself when you begin to feel an earthquake.



Earthquake home safety checklist 🖉

Keep yourself and your family safe!





When you feel shaking, think ahead



Make preparations so you can stay in your home

Take advantage of the seismic evaluation assistance program

There is a subsidy program to assist homeowners with seismic evaluation and retrofitting on homes built before 1982.



[Inquiry] Town development promotion section TEL 048-441-1800

Do not flush anything down the toilet immediately after an earthquake

Even if there is water in the bowl, do not flush toilets until you are certain that the drainage pipes are intact.Make sure you have enough toilet supplies on hand to last your entire family for at least a week. See pg. 56 for details.



Prepare emergency supplies

Use the rolling stock method to maintain at least three days' worth of food and drinking water for everyone in your family. If possible, keep a week's worth of supplies on hand.

See pg. 56 for details.



Consult the Toda City Hazard Book

Carefully read through this book and discuss preparation plans, evacuation sites, and contact methods with your family on a regular basis. See pg. 53-59 for details.





Important tips when evacuating

Follow these important tips if you are unable to stay in your home and must evacuate.

Don't forget to lock up

Make sure to lock all windows and doors to prevent further damage to your home and property.



Follow these tips if you live in a large apartment building or condo.

Do not use the elevators

Elevators could get stuck on floors where fire has broken out, or you may get trapped due to an aftershock or power outage.



If you think you can safely stay in your home,

• Following an earthquake, living in a shelter places a major psychological and physical burden on people, and it is extremely difficult to ensure privacy. In order to prevent the spread of infections, you should also consider and make preparations to either stay in your own home if there is no danger of collapse or evacuate to somewhere



See pg. 56 for a Portable emergency items kit

- Prevent accidents during recovery
- Shut off the main gas and water valves as well as the electricity breaker.
- You should also
- consider installing an earthquake-resistant
- breaker box.



Give your contact information to the management

Write down your contact information and where you'll be evacuating to. Leave it with the building manager, a neighbor, or the neighborhood association.



If you can't stay home and must go to a shelter

Help out your fellow evacuees at the shelter

Life in an emergency shelter can be incredibly confining.It's not uncommon for people to start feeling unwell after several days. Make the best of your situation by following all the rules, being courteous and kind to others, and working together to overcome the crisis.

Shelter operations

Shelters are collectively run by the evacuees.Divide up the responsibilities and help each other out. The emergency supplies at shelters are not for the exclusive use of evacuees. They must also be shared with people who are staying in their homes or living in their cars.

Sanitation

Make it a point to keep the shelter clean and well-ventilated.Note that garbage collection services are frequently compromised in a disaster. Keep sorting trash properly and do everything you can to minimize waste.

Health

Always wash your hands and gargle when entering the shelter from outside and before eating. Use alcohol sanitizers frequently.

Keep an eye on your pets

Get your pets used to being in a cage so that they do not cause problems for other people or animals in the shelter. Also make sure their vaccinations are kept up to date.

Make sure your pets are wearing collars and identification tags, and bring plenty of food and cleanup supplies with you.Remember that pet owners are responsible for feeding their pets and properly disposing of pet waste.

Making life easier at the shelter

Be considerate and accepting

There will be all kinds of people at the shelter, including the elderly, persons with disabilities, pregnant women, babies, people with allergies or other medical conditions, and non-Japanese. Everyone has their own needs, so please be mindful of them.

Unfortunately, it's not uncommon for people to lose their lives in an emergency shelter. If you feel unwell, tell a physician or other healthcare provider. If you see someone who appears to be suffering, reach out to them.



Support for people who need special consideration

Toda City has also created the Guidebook for People with Special Needs and a communication board so that people can help each other in the case of disasters. It is important to determine special needs when making preparations and helping the elderly and people with disabilities, and this should be used when providing help.

[Inquiry] Disability Welfare Division TEL 048-441-1800

Where should I evacuate? Designated shelters and evacuation map

esignated shelter

These are the main facilities where victims can take shelter until they can secure other housing.

These evacuation sites are safe places for temporary refuge.

	No.	Name	Address	Phone(048)	*	**		No.	Name	Address	Phone (048)	*	**
Area	0	Kizawa Primary School	1-48-6 Kizawa	442-6383	0	0	rea	Ð	Niizo Primary School	2-13-8 Niizo-Minami	442-2774	0	0
Ā	0	Kizawa Junior High School	1-6-29 Kizawa-Minami	444-6400	0	0	Niizo Area	₿	Toda Shoyo Senior High School	1093 Oaza Niizo	442-4963	0	0
lõd	6	Toda-Daini Primary School	2-2-37 Kizawa-Minami	442-2675	0	0	Niiz	Ð	Niizo-Kita Primary School	1367 Oaza Niizo	442-3849	0	0
Shimotoda	4	Toda-Higashi Primary School	1-11-15 Shimotoda	442-3911	0	0		20	Toda Sports Center	1286 Oaza Niizo	443-3523	0	0
R S	Θ	Toda-Higashi Junior High School	1-11-15 Shimotoda	442-5844	0	0							
	6	Tobu Welfare Center	1-2-20 Shimomae	443-1021	0			0	Niizo Welfare Center	1395 Oaza Niizo	445-1811	0	
	0	Welfare Center for the	2-4-8 Kawagishi	445-1828	0			2	Niizo Junior High School	1448 Oaza Niizo	443-4512	0	0
		Disabled						ً₿	Ashihara Primary School	1961 Oaza Niizo	420-2226	Ο	0
ea	8	Child Center Kodomonokuni	1-17-7 Honcho	443-2387	0		Area	24	Child Center Primrose	2-19-14 Sasame	422-1033	Ο	
a A	Ø	Toda-Minami Primary School	4-8-2 Honcho	442-6384	0	0	Je A	❹	Sasame-Higashi Primary School	3-17-12 Sasame	421-6674	Ο	0
tod	Ō	Toda Junior High School	5-8-46 Honcho	442-2627	0	0	Sasame	26	Souemon Park	1-38 Sasame			0
Kamitoda Area	Õ	Toda Park Office	5-27 Todakoen	442-2424	0		Sa	Ø	Sasame Junior High School	4-38-1 Sasame	421-1462	\bigcirc	0
Ξļ	Õ	Toda Park Recreation Area	6 Todakoen			0		23	Sasame Primary School	6-9-1 Sasame	421-3524	Ο	0
	ē	Saitama Prefecture Toda Daiichi Boathouse	4-2 Todakoen		0	-		ً₽	Sasame Park	7-1 Sasame			0
	ŏ	Kamitoda area interchange Center	2-21-1 Kamitoda	229-3133	0		Area	60	Bijogi Primary School	2-33-1 Bijogi	421-1037	\bigcirc	0
	õ	Toda-Daiichi Primary School	3-7-5 Kamitoda	442-2268	Õ	0	gi A	6)	Shinden Park	3-1 Bijogi			0
	ŏ	Toda City Cultural Hall	4-8-1 Kamitoda	445-1311	0	-	Bijogi	62	Nanryo Senior High School	4-23-4 Bijogi	421-1211	0	0
		ATT IS					-	63	Seibu Welfare Center	5-2-16 Bijogi	421-3024	\bigcirc	
		A A A						34	Misasa Junior High School	5-12-6 Bijogi	421-3011	0	0
		T ST ST ST	of the second					65	Miyamoto Primary School	7-11-3 Bijogi	421-3010	0	0
	-	ATT TON	Line 1				rvice irs	66	Welfare Health Center	5-6 Oaza Kamitoda	426-6484	\bigcirc	
E.	-	THEF-HH	A Car				ial services	Ø	Sasame Community Center	3-12-1 Sasame	422-9988	0	
3	1			4			s,						





These facilities are equipped to care for disaster victims such as the elderly and disabled, would have trouble caring for themselves in a regular shelter and need additional support services.

Community initiatives

Community initiatives Q&A

What is my neighborhood association or residents' council doing to prepare for disasters?

Communities are carrying out grassroots activities Α to prepare for disasters, such as Neighborhood **Disaster Preparation Workshops and synthesis** disaster prevention drills

→ Neighborhood Disaster Preparation Workshops (pg. 44-47)

→Voluntary disaster prevention societies: Using teamwork to keep communities safe (pg. 48-49)

What do I do if I can't get to an Emergency **Evacuation Building?**

Neighborhood associations and residents' councils have agreements with certain public facilities that allow them to use them as Temporary emergency evacuation building for Flood Hazard.

> Finding a Temporary Emergency Evacuation **Building for Flood Hazard** (pg. 44)

I'd like to help people who will have trouble evacuating on their own. How can I do that?

We'd love to have you! Please sign up for your local Makasete Group as soon as you can.

→Helping those who need assistance evacuating (pg. 45)

I don't get around very well, and am worried that I might not be able to evacuate in a disaster.

We have two support services in place for people Α who need assistance evacuating. Make sure you register for one of them before disaster strikes.

→Helping those who need assistance evacuating (pg. 45)

→Toda City refuge action supporter refuge support system required (pg. 51)

How do I found out what neighborhood association or residents' council we belong to?

There are 47 neighborhood associations and residents' councils in Toda City.

Use the map to find out which one you and your family belong to.

Neighborhood associations and residents' councils that have formed voluntary disaster prevention societies (pg. 48)

What if there's a problem in my apartment or condo building during a disaster?

Residents need to help each other. You'll be more confident and better prepared if you team up with your neighbors in disaster preparation activities on a regular basis.

Α

→Disaster readiness in apartments and condos (pg. 50)

Emergencies bring out the best in communities

You are responsible for your own safety

The key to eliminating casualties in a disaster is making sure that every person in the community ultimately takes responsibility for his or her own safety. Put simply, it is irresponsible to assume you will be fine and fail to prepare yourself by simply placing your life in other people's hands.

Next comes the safety of your family...

If you do not take responsibility for your own safety, you will not be able to help your family when they need it. The best way to keep your family safe is to make sure that you have an emergency plan in place and are always prepared for the unexpected.

...and then the safety of your community.

If everyone in the neighborhood takes the initiative to protect their own lives and the lives of their families, the strength of the community will be the most powerful defense against casualties should any one individual need assistance.



А

А

Have you heard? **Neighborhood Disaster Preparation Workshops**

Even if the Arakawa River overflows or some kind of other major disaster occurs, zero casualties should still be our ultimate goal. To help us achieve it, we are encouraging all neighborhood associations and residents' councils to come up with effective evacuation protocols and other emergency strategies.

Finding Temporary Emergency Evacuation Building for Flood Hazard

Forcing yourself to evacuate in heavy flooding is extremely dangerous. To help save the lives of those who don't get out in time, neighborhood associations and residents' councils are setting up Temporary Emergency Evacuation Building for Flood Hazardwhere where community members can evacuate.

If people get caught and can't make it to the elementary school, I wonder if they could at least make it to these condos...

If we set up several locations across the neighborhood, people will be able to get themselves to safety without panicking.

We can be sure that this five-story condo won't flood above the third floor.

Just to be safe, let's sign an agreement with the building manager saying that these floors can be used as an evacuation building in an emergency.

What is a Temporary Emergency Evacuation Building for Flood Hazard?

Temporary evacuation points are places where residents who did not get out in time or whose lives are in danger due to floodwaters in their home can temporarily take refuge in an emergency.

Any tall building whose upper floors are not in danger of flooding can serve as a Temporary Emergency Evacuation Building.

Because Temporary Emergency Evacuation Buildings are only designed for temporary use in crisis situations, those who go there may find it difficult to get emergency supplies and may be forced to survive difficult living conditions.

Once the floodwaters recede, people taking refuge at temporary evacuation points must be moved to designated evacuation shelters equipped for longer stays.



Upper floors that remain dry can be used as a **Temporary Emergency Evacuation Building**

Helping those who need assistance evacuating

Most casualties in a disaster involve the elderly, people with disabilities, and others who have difficulty evacuating on their own. To offer assistance to these residents, a growing number of neighborhood associations and residents' councils are setting up Onegai Group-Makasete Group assistance programs.

The first thing we need to do is figure out exactly how many people there are that need assistance (Onegai Group) and how many are willing to offer assistance (Makasete Group).



We need to decide in advance what conditions will kick the evacuation assistance into action and where people will be evacuated to.

More on *Onegai* groups and *Makasete* groups

Members of the Onegai Group are those who would have difficulty evacuating on their own and would require assistance should Toda be at high risk for a major disaster like an Arakawa River flood.

Members of the Makasete Group are residents who are willing to assist members of the Onegai Group in an emergency. Assistance programs that use the Onegai Group-Makasete Group framework are run by the local neighborhood associations and residents' councils. If you would like to sign up as a Onegai Group or Makasete Group member, please contact your neighborhood association or residents' council.



It would be great to get as many people in the Makasete Group as possible. I hope the community comes together for this oneespecially our younger residents.

We need to make sure that we regularly check in with the Onegai Group and Makasete Group members in the neighborhood so that we're prepared when the time comes.

Making sure everyone knows the evacuation protocol

Neighborhood associations and residents' councils are putting together guidebooks outlining local evacuation protocols and distributing them to residents. The guidebooks contain information on Temporary Emergency Evacuation Building for Flood Hazard, ways to give and receive evacuation assistance, and other information determined during emergency preparation workshops.

> These guidebooks will ensure that everyone in the neighborhood understands the evacuation protocols designed by the association and will be able to take appropriate action in an emergency.

We should also hold a town hall meeting to explain the contents of the guidebook in more detail.

We need to keep these guidebooks in an accessible place so that we can refer to them at any time.

More about neighborhood association and residents' council guidebooks

These guidebooks outline important information determined during neighborhood association and residents' council workshops, including evacuation shelters available during a flood (Emergency Evacuation Buildings designated by the city as well as neighborhood association/ residents' council Temporary Emergency Evacuation Building), ways to support people who need assistance evacuating (onegai group), and more.

Neighborhood associations and residents' councils prepare and distribute these guidebooks so that everyone in the community knows exactly what to do in order to keep community casualties to an absolute minimum.



Sample guidebooks

Know the protocol! Participate in evacuation drills.





Residents hear the announcement and proceed to an Emergency Evacuation Building for Flood Hazard designated by the city or a Temporary Emergency Evacuation Building for Flood Hazard designated by the neighborhood association.

The importance of evacuation drills

- When actually faced with a flood situation, people tend to panic and find it impossible to act in a controlled way.
- Participating in realistic evacuation drills is important as a way to stay calm in an emergency and make sure you are always prepared for the unexpected.
- Once an evacuation drill has been carried out, neighborhood associations and residents' councils also have the opportunity to revise their existing evacuation protocols to make them better.

Neighborhood Disaster Preparation Workshops portal URL www.katada-lab.jp/toda_ws/index.html

Provides detailed information on workshops, Arakawa River overflow flood simulations, animations showing predicted floodwater depths at well-known city landmarks, and more. The website also provides a map of Temporary Emergency Evacuation Buildings designated by neighborhood associations and residents' councils during past workshops.

Neighborhood associations hold evacuation drills to make sure that the designated protocols are effective.

We've made it to the designated Emergency Evacuation Building for Flood Hazard.

Makasete Group starts offering assistance to Onegai Group when they hear the "Evacuation start of elderly people and others" announcement



Post-evacuation drill feedback session (2013)



Voluntary disaster prevention societies: Using teamwork to keep communities safe

You have undoubtedly heard an increasing number of news reports lately about communities suffering damages due to heavy rain and other unusual weather patterns as well as the occurrence of many other types of unsettling events. There is a limit to what any one person can do. If we want to keep our neighborhoods safe and secure, we must join forces with the people around us.

Neighborhood associations and residents' councils that are forming voluntary disaster prevention societies

Toda City is divided into five districts (Shimotoda, Kamitoda, Niizo, Sasame, and Bijogi), each of which has its own neighborhood associations and residents' councils. There are a total of 47 of these groups throughout the city conducting grassroots activities in each region--every one of them forming a voluntary disaster prevention society. We hope that everyone will make it a point to get involved with their local neighborhood association or residents' council.

Map of neighborhood associations and residents' councils



More information on neighborhood associations and residents' councils

Visit the Toda City website for more information on neighborhood associations and residents' councils. The site also lets you find your local association or council based on the location of your home.
URL http://www.city.toda.saitama.jp (Toda City website)
Toda City website ▶ Top page ▶ • ﷺ ▶ Civic life department ▶ Collaboration promotion section ▶
Town assembly, the residents' association site top
[Inquiry]
Collaboration Promotion Section TEL 048-441-1800

Local residents take the lead in conducting synthesis disaster prevention drills

Synthesis disaster prevention drills led by voluntary disaster prevention societies

Every year in late September, the voluntary disaster prevention societies of Toda City each gather to conduct synthesis disaster prevention drills--handling everything from discussion and planning to execution. These societies bring the community together in the event of a disaster so that everyone can overcome the crisis. Make sure you participate in these drills as well!



Photo: Synthesis disaster prevention drill conducted on September 24, 2017

Learn more!





TEL 048-441-1800

Disaster readiness in apartments and condos

You'll need to count on your neighbors in a disaster. Make it a habit to participate in local festivals and build cooperative relationships with the other people in your building.

Build a disaster-ready community

Learn which of your neighbors has the kind of knowledge and experience that will come in handy in a disaster, and work together to help each other out. Identify the builders, healthcare workers, social services providers, firefighters, or others with useful skills.



Prepare a list of everyone who lives in your building so that you can check on their safety in an emergency. Know in advance who might need special assistance (e.g. the elderly or disabled persons). Make a separate list of these neighbors and create a system for helping them out.

Conduct disaster readiness drills and seminars

Draw up an evacuation plan and hold disaster readiness drills and seminars for residents to participate in.

Toda City will send a city planning expert to your building to talk about disaster readiness measures for apartments and condos. Contact us any time to learn more!

[Inquiry]Crisis control disaster prevention section TEL 048-441-1800

Use subsidies to purchase emergency supplies

There is a subsidy program that covers half the cost of disaster readiness equipment for apartment buildings, condos, and offices. Make sure you take advantage of it.

The subsidy is available to apartments, condos, and offices that have
established disaster support agreements with their local voluntary disaster
prevention society.
[In suin] Crisis control disector prevention contion

[Inquiry]Crisis control disaster prevention section TEL 048-441-1800

Refer to the Handbook on Creating a Residential Building Earthquake Manual

This handbook includes templates for manuals that include both earthquake readiness and response activities for apartment buildings and condos. It provides procedures and key points that make it possible for every residential building to create a custom manual to suit their needs.

[Inquiry]

Earthquake Readiness Representative, Crisis Management Section, Crisis Management and Disaster Readiness Division, Saitama Prefecture

TEL 048-830-8148

You can get a copy of the Handbook on Creating a Residential Building Earthquake Manual by downloading it from the link below.

URL https://www.pref.saitama.lg.jp/a0401/mansyonmanyuaru.html









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平成25年3月 〇 秋の田 埼玉県

Toda City refuge action supporter refuge support system required

This system is designed to offer assistance to the elderly, persons with disabilities, and others who would have difficulty evacuating on their own in a disaster. If this description fits you or someone you know, make sure that you (or they) are registered for the program!

Eligibility requirements

(1) The person is 75 or older and living alone, or a household consisting of only elderly persons 75 or older (2) The person has a level 1 or level 2 physical disability certificate (3) The person has an (A, or B rehabilitation certificate (4) The person has a level 1 or level 2 intellectual disability certificate (5) The person requires level 5,4 or level 3 care under the nursing insurance program (8) Elderly persons are more likely to live alone during the daytime (solitary during the day)

Program overview



- System participants must be registered Toda City residents currently living in the city. One of the following must also apply:
- (6) The person currently makes use of an elder-care service (meal delivery, in-home personal grooming, transportation, or emergency contact system) (7) The person currently makes use of a service for persons with disabilities (meal delivery or emergency contact system)
- Note: Persons suffering from terminal diseases who do not meet any of the above eligibility requirements may also request evacuation support.

Family disaster plan



Talk with your family about preparing for a flood or an earthquake. Decide which shelter you'll go to and establish a means of contacting everyone.

Make sure to update your evacuation plan if a family member's school or workplace changes, or if a new member joins the family.Make sure you keep everyone's mobile numbers and contact information up to date as well.

Plan in advance 🥔

My Timeline, flood evacuation plan **Family evacuation sites** How the family will contact each other

Confirm and write it down in advance 🥟



Portable emergency items and stockpiles

Earthquake home safety (pg. 37)

How to stay informed

My Timeline, flood evacuation plan

Talk with family members about what and when preparations should be made from when a "typhoon develops" until the "river overflows."



• The timing of heavy rain advisory, evacuation instructions, and other announcements are only for explanatory purposes. Actual ones will be issued at different times. • Make decisions early depending on conditions and taking into consideration the alert level and disaster prevention meteorological information and prepare to evacuate

• The wording of alert levels and other items are as of April 2021 and may change. You can download the "Nige Kid" (Evacuation Kid), a My Timeline tool for elementary and junior high school students

URL https://www.city.toda.saitama.jp (Toda City website) Toda City Website Top page Disaster prevention information In case of emergency

Evacuation points				
	with main arations			Examples of preparations
		Time to finish things before the rain and wind strengthen	Check aroun blown	that there is nothing d your house that could be away by the wind Complete your shopping before the rain and wind strengthen. tention to the rain and river tions using the TV, Internet,
		Time to ascertain water level, etc., and start evacuation activities depending on	where Start to Charge	o check the amount of rain e you live and upstream o check the river height e mobile phone Elderly people such as grandparents who take time to evacuate should evacuate early. e into clothing that is priate for evacuating
		: activities depending on how long it will take to evacuate	 inform Decide emerg other Start to 	o move to safe location ete evacuation to the
		te Time to ensure your own safety	ernerg	ency shelter in the city, etc. Quickly act to protect yourself!

Family evacuation sites

Decide on an evacuation point in advance 🥢

If a flood or earthquake occurs, there's no guarantee that your family will be together when it happens. Review the hazard map and decide on an evacuation point for family members who are at home or out of the house when the disaster strikes. Then, actually walk to the destination.

Floods		Tarthauala
Flood evacuation point	00	Earthquake evacuation point
Get out early	If we get out at the last minute	If the evacuation point is unsafe
safe higher ground outside the cit E.g. a friend's or relative's hou See pg. 24-27	Buildings for Flood Hazards	 a designated shelter E.g. a friend's or relative's house See pg. 41
f we're at home		
If we can get out in time	If we get out at the last minute	If your home is unsafe
f we're out at work or school)		
Name If we can get out in time	If we get out at the last minute	If your school or workplace is unsafe
Workplace or school		
Name If we can get out in time	If we get out at the last minute	If your school or workplace is unsafe
Workplace or school		
Name If we can get out in time	If we get out at the last minute	If your school or workplace is unsafe
Workplace or school		
Name If we can get out in time	If we get out at the last minute	If your school or workplace is unsafe
Workplace or school		
Meeting point if the family gets separated		
It's a good idea to decide on a meeting point where everyone can gather after they're safe at	In case of a flood	In case of an'earthquake

Don't forget to check the disaster readiness of your home!

How will you get information?

their respective locations.

Sign up for iitoda email and download the apps you need in advance, and practice using them before disaster strikes.Disaster

message boards sometimes run tests, so make sure to practice using them when they do.



measures listed there. Also make sure that the structure and outside of your home are free from dangers. If you see something

Are there dangers in your home?

dangerous, repair or reinforce it.

Review pg. 37 and take the earthquake home safety

How the family will contact each other

Set up alternate contact methods before disaster strikes 🖉

Disasters sometimes make it impossible to contact people via the usual means.Set up alternate contact methods before disaster strikes.

Family member contact information		
Name	Name	
Contact (work, school, etc.) Mobile	Contact (work, school, etc.)	Mobile
Name	Name	
Contact (work, school, etc.) Mobile	Contact (work, school, etc.)	Mobile
How the family will contact each other Write down an alternate contact method if the phones are down for your reference.		

Alternate contact method if the phones are down

Emergency message line 171

It is often difficult to get calls through during a disaster. Dial 171 to leave and check emergency messages. * The 171 emergency message line is activated during a catastrophe once phone lines become congested from too many calls coming into the disaster area.



Using a relay point a family member or friend outside of town

It is often easier to call outside of a disaster area when a catastrophe strikes. Plan ahead by asking a family member or friend outside of town to serve as a relay point for messages.

Emergency message board

If you can get an internet connection in the disaster area, you can also access disaster message boards. ※ Emergency message boards will be opened in the event of a disaster. For details about the service, refer to the information from NTT and other phone companies.

Web171 (NTT)	NTT DoCoMo
URL https://www.web171.jp/	URL http://dengon.docomo.ne.jp/to
au (KDDI)	Softbank / Y!mobile
URL http://dengon.ezweb.ne.jp/	URL http://dengon.softbank.ne.jp/

J-anpi safety checkup group search

In addition to safety information posted on disaster message boards, you can search for group safety information collected by various companies and other organizations. Note: This service can be accessed by almost any computer with an internet connection or mobile phone.

l-anpi	Search by nam
URL https://anpi.jp/top	or
Access	Search by phone num

top.cgi



Portable emergency items and stockpiles

Be prepared! Have these items ready before disaster strikes. 🖉

Emergency shelters only have limited supplies, so it's important that you prepare enough daily necessities for you and your family.

Your portable emergency items should ideally be a backpack that leaves both your hands free. Make sure to try it on to make sure that it's not too heavy.

Keep at your bedside				
Sneakers/slippers	E Flashlight			Mobile phone, etc.
☐ Whistle	🗌 Snowsuit			Portable emergency items kit (backpack)
In your portable emergency iter	ns kit (backpac	:k)		
Emergency rations	🗌 Drinking v	vater		☐ Towels/tissues
Change of clothes	🗌 Portable t	oilet		Plastic bags
Valuables (wallet, money (including 10)-yen coins for public	c telephones),	bankbook, p	ersonal stamp, health insurance card (copy), etc.
Medications	Writing imple	ments (permar	ent marker)	Portable radio
□ Batteries and chargers □ Basic utensils (disposable chopsticks, paper plates) □ Col			Cold-weather/rain gear	
Glasses/contact lenses Feminine		products		Family photos
Items to prevent infections	Masks,Wipes	s,Disinfecta	nt sheet,	Disinfectant gel, etc.
Additional items				
Disposable hand warmers	🗌 Work glov	/es	🗌 Helm	et
🗌 Tarp	🗌 Duct tape		🗌 Tools	
Large garbage bags	🗌 Security b	uzzer	🗌 Toda	City Hazard Book (this guidebook)
Other family items				
Babies Baby food, formula, diapers,	wipes, etc.	Infirm Doc	tor contact inf	ormation, medications, prescriptions, stoma kit, etc.
Elderly Dentures, soft foods, adult diapers, etc.		Pets Leas	sh, cage, cle	ean-up supplies, food, etc.

Get everything ready to go! 🖉

Delivery services stop for several days during a disaster, so be prepared for a situation in which you cannot shop for daily essentials. Have everything ready in advance so that you do not suffer while you are waiting for things to return to normal.

		The rolling stock method	
Daily supplies	Keep a supply of non-perishable food items and water on hand, and keep it replenished as you use it.	71-	
At least three days' worth of food	Canned or boil-in-bag food, nutritional supplements, snacks, seasonings, soup, etc.	Store	
🗌 Water	2–3 liters per person per day	Packing what you like to eat will help	
Toilet supplies	Makeshift toilet, receptacle for soiled items, seven days' worth of portable toilet bags and toilet paper	keep your spirits up during tough times.	
-	y per person x number of family members x 7+ days 140 times for a family of four)	Buy more	
E Fuel Canne	d fuel for portable cooking stoves, solid fuel		
🗌 Can opener	Plastic wrap	Consume	
Blanket and sleepir	ng bag 🗌 Toiletries	The most economical strategy is to continually rotate your stockpiles so that nothing expires.	

Tornados and lightning

Cumulonimbus clouds can cause tremendous damage when they start producing tornados, lightning, and heavy rain.

How to recognize a cumulonimbus cloud

Cumulonimbus clouds are formed when a powerful updraft rises to create a towering, vertical cloud.

The thunderclouds often seen during the summer months fall into this category.

These are the signs that a cumulonimbus cloud is drawing near:

- Nearby black clouds or a sudden darkening of the sky
- Thunder and lightning
- A sudden draft of cold air
- Large raindrops or hail

Get to a safe place immediately!

Protecting yourself in a tornado

Tornados can form without any warning. Get educated about them so that you can quickly take action to protect yourself.



If you are	inside
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- Get to a first floor room without windows
- Close storm shutters and curtains and stay away from windows
- Get under a sturdy table or desk, curl up, and protect your head

Protect yourself from lightning

- Stay away from buildings and vehicles
- Stay low to the ground if you are in an open field or other flat, spacious area
- If you are swimming, surfing, golfing, or doing some other outdoor activity, stop and get to a safe place
- Do not hold long objects like umbrellas, fishing poles, or golf clubs.
- Stay away from trees and utility poles.



If you are outside

- Get into a solidly-constructed building
- If there is no such building, get behind a sturdy structure and curl up
- Stay away from utility poles and large trees
- Do not enter a shed or prefab structure
- Close nearby shutters

For more weather information and cautions around lightning and tornados, visit

Japan Meteorological Agency Website

URL http://www.jma.go.jp

Japan Meteorological Agency Website 🕨 Weather Warnings/Advisories

How to stay informed

When there is an increased risk of disaster conditions or a disaster actually strikes, the city will use a variety of methods to get the word out.

Make sure to regularly check for information so that you know how to get it when you need it.

How information is communicated



Emergency broadcast system

Disaster information will be broadcast through the loudspeakers (emergency broadcast system) located throughout the city.You can also get the same information through the iitoda email service, the toco puri community application, the official Toda City Twitter account, or disaster radio.

Toda City disaster information hotline

This toll-free service allows you to hear the same information issued through the emergency broadcast system (area loudspeakers).

Toll-free number 0120-13-8882 * Requires a touch-tone phone.

[Inquiry]Crisis control disaster prevention section

TEL 048-441-1800

Toda City Portable Emergency Radio

It costs 3,000 yen to have a portable emergency radio, which makes it possible to listen to broadcasts on the emergency broadcast system, installed.



iitoda email (requires registration)	
Sign up to get disaster management emails from Toda City sent to your mobile phone or computer. For details, please check the following website.	This service provides: Earthquake information, weather advisories and warnings, Emergency broadcast information and more
URL http://www.city.toda.saitama.jp (Toda City website)	
Toda City website トTop page ト • 組織から探す ト Digital strate	gy section ▶ "iitoda email" (email service)
email e-toda@emp-sa.smart-lgov.jp	

To register:



(QR code)

687

Simply send a blank email to the address above and follow the instructions to register. You can also use the QR code on the right to access the email address.

Emergencymobile alerts (no registration required)

Emergency mobile alerts are automatically sent to all mobile phones in the area. You do not have to sign up for them.

* For more information, contact your mobile service provider.

	Television (data) broadcasts					
	If your television supports data broad- casts, press the d button to check meteo- rological and disaster information.Terrestrial digital broadcastingNHK1chTelevision Saitama3chCable broadcastJ:COM Kawaguchi Toda(Cable broadcast available to subscribers only)					
	Radio broadcasts					
	AM NHK Daiichi 594 kHz FM NACK5 79.5 MHz					
	Smartphone or internet					
	Yahoo! disaster prevention breaking news					
	This service provides emergency information on approaching typhoons, which shelters are open, and more. URL https://emg.yahoo.co.jp Install the app and set your community to Toda City. Install the app and set your community to Toda City.					
	Community application (toco puri)					
	Read and post community information. You can also get push notifications with disaster readiness information, weather information, and more. $to CO \mathcal{B} \mathcal{V} \mathcal{Q}$ Search for "toco puri" and download the app using the icon shown on the right.					
	Toda City Twitter feed					
	URL https://twitter.com/toda_city Account @toda_city Hashtag # 戸田市役所					
	Online information					
	Toda City website Disaster management information, meteorological information, and more					
	URL http://www.city.toda.saitama.jp					
	Toda City meteorological information Toda City advisories and warnings					
	URL http://www.micosfit.jp/toda-city					
	Crisis management · Disaster prevention · Crime prevention etc. safety and security of Sainokuni Prefectural advisories, warnings, and more					
	URL http://www.pref.saitama.lg.jp/theme/anzen Japan Meteorological Agency High-resolution Precipitation Nowcasts · Real-time Flood Risk Map · typhoon information · earthquake information, and more					
URL http://www.jma.go.jp						
	MLIT River disaster information River water level data, rainfall data, and more					
	URL http://www.river.go.jp					
	Mobile Site http://i.river.go.jp Smartphone https://www.river.go.jp/s					
	MLIT Disaster Management information Center Nationwide disaster information, river information, meteorological information, and more					
	URL http://www.mlit.go.jp/saigai/bosaijoho/ Mobile Site http://www.mlit.go.jp/saigai/bosaijoho/i-index.html					

Family disaster plan



居安思危 思則有備 有備無患

In peace time be vigilant Consideration is preparedness, The prepared shall not suffer

Ju-an-si-wei (or koanshiki in Japanese) is a well-known Confucian proverb given in the ancient chronicle "Zuo Zhuan" from the Spring and Autumn period of Chinese history.

"The prepared shall not suffer" is widely recognized, but the original contains three parts:

- 1. Even when things are safe, prepare for danger and do not let down your guard
- 2. Mental preparedness in times of safety is preparation for danger
- 3. If you are prepared you will be able to react calmly in the face of circumstances.

These combine to express the importance of an attitude of being ready to manage or prevent disaster even when it is safe.

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Certain maps used in this publication make use of digital national land use information (administrative regions and river data) provided by the Ministry of Land, Infrastructure, Transport and Tourism.

Some of the maps appearing in this book are reproductions of maps in the Toda City Digital Topographic Map data. (Approval Number) 令和2年9月7日戸都計第502号